## ASSIGNMENT 4

Textbook Assignment: "General Aircraft Maintenance," chapter 3, pages 3-1 through 3-50.

- 4-1. based on what concept?
  - 1. Instant inventory
  - 2. Cost effectiveness
  - 3. Personal accountability
  - 4. Tool replacement demands
- 4-2. Ensuring that tools are procured and issued in a controlled manner consistent with the approved tool control plan is the responsibility of what officer?
  - 1. The maintenance officer
  - 2. The material control officer
  - 3. The quality assurance officer
  - 4. The assistant maintenance officer
- Which of the following reports 4-3. should be used to report poor quality tools to FLEMATSUPPO?

  - 2. HMR
  - 3. CAT I QDR
  - 4. CAT II ODR
- 4-4.Upon task assignment, you must record the tool container number on 4-9. what copy of the VIDS/MAF?
  - 1. Copy 1
  - 2. Copy 2
  - 3. Copy 3
  - 4. Copy 5
- What person is responsible for 4-5. training work center personnel in the use of a material safety data sheet (MSDS)?
  - The safety officer
  - 2. The executive officer
  - 3. The work center supervisor
  - 4. The maintenance control Chief
- 4-6. To indicate a hazard that could result in injury or death to personnel if not carefully observed or followed, what safety term is used?
  - 1. Memo
  - 2. Note
  - 3. Warning
  - 4. Caution

- The Navy's Tool Control Program is IN ANSWERING QUESTIONS 4-7 AND 4-8, REFER TO FIGURE 3-3 IN THE TEXTBOOK.
  - Thin lines made up of long and short dashes alternately spaced and consistent in length are known by what name?
    - Hidden lines
    - 2. Center lines
    - 3. Dimension lines4. Extension lines
  - 4-8. Thin lines terminated with arrow heads at each end are known by what name?
    - 1. Hidden lines
    - 2. Leader lines
    - 3. Extension lines
    - Dimension lines

IN ANSWERING QUESTIONS 4-9 THROUGH 4-13, SELECT FROM COLUMN B THE TYPE OF DRAWING OR DIAGRAM APPROPRIATE FOR THE USE LISTED

IN COLUMN	A.		
<u>A.</u>	USES	В.	TYPES

- Shows an exploded 1. Block diagram view
- 4-10. Illustrates a 2. Schematic diagram system
- 4-11. Shows disassembly 3. Pictorial drawing
- Shows the sequence 4-12. in which the 4. Orthodifferent graphic components operate drawing
- 4-13. Shows detail of parts, components, and other objects; used primarily by the manufacturer
- 4-14. A graphic representation that shows how a component fits with other components of a system but does not tell where it is in the aircraft is known as what type of diagram or drawing?
  - 1. Schematic diagram
  - 2. Pictorial drawing
  - 3. Installation diagram4. Orthographic drawing

- 4-15. Efficient troubleshooting of an electrically controlled hydraulic system may require you to use a multimeter for which of the following reasons?

  - To check frequency
     To check voltage and continuity
     To relieve the AE of solving electrical problems
  - 4. To read the electrical portion of a schematic
- After conducting a visual inspection and an operational check, what troubleshooting step range for MIL-G-21164? 4-16. should you perform next?
- You are troubleshooting a malfunction and conducting the final operational check. What is 4-17. the minimum number of times the the minimum number of times the affected system must be actuated?
  - 1. Five
  - 2. Seven
  - 3. Three 4. Four
- When performing an operational check, which of the following actions should you complete before 4-18. applying external hydraulic and electrical power?

  - 1. Remove all safety locks
    2. Install all ground covers
    3. Return all flight controls to their neutral position
  - 4. Check all circuit breakers and electrical switches for proper position
- Which of the following maintenance 4-19. malpractice causes fatigue failure in fasteners?

  - Overtorquing
     Undertorquing

  - Undertorquing
     Improper heat treatment
     Improper protective coating
- You can find separate torque tables
  and torquing considerations in
  which of the following manuals?

  1. MIMs
  2. MRCs
  3. Either 1 or 2 above
  4. OPNAVINST 4790.2 (series)
  - 1. NAVAIR 01-1A-8

  - 2. NAVAIR 01-1A-6 2. NAVAIR 01-1A-17 3. NAVAIR 01-1A-500 4. NAVAIR 01-1A-509

- - 1. To cool metallic parts
  - 2. To protect metallic parts
  - against wear

    3. To protect metallic parts against corrosion
  - 4. To increase friction when metal surfaces are in direct contact

IN ANSWERING OUESTIONS 4-22 AND 4-23. REFER TO TABLE 3-5 IN THE TEXTBOOK.

- 1. Locate the trouble
  2. Isolate the trouble
  3. -65° to 160°F
  3. Correct the trouble
  4. -100° to 250°F
  4. Classify the trouble
  4-23. To lubricate wheel bearings on internal brake assemblies, what internal brake assemblies, what type of grease should you use?
  - 1. MIL-G-4343
  - 2. MIL-G-23827
  - 3. MIL-G-81322
  - 4. MIL-G-25013
  - 4-24. What total number of common methods are used to apply lubricants?

    - 1. One 2. Two
    - 3. Three
    - 4. Four
  - 4-25. Flush lubrication fittings are used for which of the following reasons?
    - 1. To prevent interference with moving parts
    - 2. To reach areas that are normally easy to access
    - 3. To reach areas that are normally hard to access
    - 4. To lubricate areas that do not require much lubrication
    - To determine the type of lubricant and equipment to be used in a given 4-26. area of an aircraft, you should refer to which of the following publications?

- 4-27. To find the basic weight of an aircraft, you should refer to which 4-34. Which of the following is NOT a type of aircraft lifting sling? of the following publications?
  - 1. NAVAIR 01-1A-40 2. NAVAIR 01-1B-40 3. NAVAIR 01-1A-50 4. NAVAIR 01-1B-50
- What type of aircraft weighing equipment has become the standard used by the Navy?
  - 1. The mobile electronic weighing system
- Typically, a mobile electronic 4-29. weighing system can be set up by two men in what minimum number of minutes?

  - 1. 10 min 2. 15 min
  - 3. 20 min
  - 4. 30 min
- Heavy-duty portable scales must be 4-30. calibrated at least how often?

  - Prior to use
     Once every 6 months
     Twice every 6 months
     Once every 12 months
- 4-31. Which of the following components is NOT normally a part of a weighing kit?

  - A plumb bob
     A chalk line
     A hydrometer
     A spirit level
- 4-32. Before using an electronic scale, you must warm it up for what minimum number of minutes? minimum number of minutes?
  - 5 min
  - 2. 10 min
  - 3. 20 min
  - 4. 30 min
- 4-33. After removing an aircraft from the scales, you must reweigh it if the scale does NOT return to zero within what number of minutes?
  - 5 min 1.

  - 2. 10 min 3. 15 min
  - 4. 20 min

- - 1. Wire rope

  - 2. Snatch cable 3. Fabric webbir Fabric webbing
  - 4. Structural steel
- 4-35. What is the most common type of aircraft lifting sling?
  - 1. Web sling

  - Chain sling
     Wire rope sling
     Structural aluminum sling
- 2. The heavy-duty portable scales
  3. The stationary pit-type scales
  4-36. Which of the following types of
  4. The electronic load cells
  lifting slings do NOT contain flexible components?
  - 1. Wire slings
  - 2. Chair slings
  - 3. Fabric slings
  - 4. Structural steel slings
  - To find load testing and inspection 4-37. information on aircraft lifting slings, you should consult what publication?
    - 1. NAVAIR 01-1A-17

    - 2. NAVAIR 01-1A-20 3. NAVAIR 17-1-114 4. NAVAIR 17-15E-52
  - 4-38. When a lifting sling's capacity has been exceeded, which of the following actions should you take?
    - 1. Forward it to AIMD for analysis and disposition
    - 2. Use it once more, and then forward it to AIMD
    - 3. Send it to the organizational unit for analysis and disposition
    - 4. Retain it until the next time it is required, and then forward it to AIMD for inspection
    - A group of wires twisted together 4-39. is known by what name?
      - 1. A wire rope
      - 2. A strand
      - 3. A cable
      - 4. A core

- 4-40.the term "bird cage" mean?
  - 1. A kink that has been pulled through in order to straighten a cable
  - a cable
    2. A cable that is manufactured to
  - stored
  - 4. A neatly coiled cable
- You should examine and lubricate all lifting slings at least how 4-41. often?
  - 1. Once a week
  - 2. Twice a week

  - Once a month
     Twice a month
- Hoisting restrictions for a 4-42. specific type of aircraft can be found in which of the following publications?
  - 1. NAVAIR 01-1A-8

  - 2. NAVAIR 01-1A-17 3. NAVAIR 15-02-500B
  - 4. Applicable MIM
- What are the two types of aircraft 4-43. jacks used by the Navy?
- 4-44. Aircraft jacks are serviced with what type of fluid?

  - fluid
- Special inspections are conducted on axle jacks at AIMD SE at what 4-45. specified interval of time?
  - 1. Every 4 weeks
  - 2. Every 13 weeks
  - 3. Every 26 weeks
  - 4. Every 52 weeks
- 4-46. The designation A20-lHC is for what model of jack?
  - 1. A 10-ton, hand-carried axle iack
  - 2. A 20-ton, hand-carried axle jack
  - 3. A 10-ton, cantilever axle jack 4. A 20-ton, horseshoe axle jack

- In reference to a cable, what does 4-47. What is another name for the T-bar axle jack?
  - 1. Alligator jack
  - 2. Crocodile jack
  - 3. Toothpick jack
  - 4. Hard tail jack
- look like a bird cage
  3. A cable that is improperly 4-48. A wing, nose, or tail jack is also known by what name?
  - 1. Tripod jack
  - 2. Reptile jack
  - 3. Portable axle jack
  - 4. Fixed outrigger jack
  - 4-49. A tripod jack consists of what total number of basic assemblies?

    - 2. 2 3. 3
    - 4. 12
  - 4-50. A leg extension kit for a variable height tripod jack will increase its effective height by what total amount of inches?
    - 1. 6 inches
    - 2. 12 inches
    - 3. 18 inches
    - 4. 24 inches
- 1. T-bar and camel
  2. Hand-carried and T-bar
  3. Horseshoe and outrigger
  4. Axle and airframe (tripod)
  4-51. What manual lists alternate jacks for a given aircraft?

  1. NAVAIR 01-70-19

  - 2. NAVAIR 19-70-46
  - 3. NAVAIR 19-75-40
  - 4. NAVAIR 70-19-48
- 1. General-purpose oil 4-52. NAVAIR 19-600-135-6-1 is the general preoperational inspect MRC for what types of jacks?

  4. Support equipment hydraulic general preoperational inspection MRC for what types of jacks?

  - Axle jacks only
     Tripod jacks only
     Airframe jacks only
  - 4. All jacks
  - 4-53. Which of the following statements is true regarding airframe jacks?
    - 1. They have brakes
    - 2. Their wheels can be locked in place
    - 3. They may not be towed by using a towbar
    - 4. Their wheels are spring loaded on the jack

- To prevent an airframe jack from 4-60. being lowered too rapidly, what 4-54. component is installed as a safeguard?

  - A safety locknut
     A hydraulic hand pump
     A safety bypass valve

  - 4. A hydraulic ram safety valve
- 4-55.
  - 1. Six
  - 2. Two
  - 3. Three
  - 4. Seven
- During jacking operations, the tie- 4-62. 4-56. down chain preload is too high when which of the following conditions exists?
  - 1. The jack safety valve bypasses fluid
  - 2. The first stage locknut does not turn
  - 3. The tensioning grip cannot be rotated by hand
  - 4. The jack baseplate is seated flush with the deck
- As a bullet passes through the cell wall of a self-sealing fuel cell, 4-57. aircraft may then continue its mission.
  - 1. True
  - 2. False
- 4-58. The self-sealing fuel cells now in naval service are made up of what total number of primary layers of material?
  - 1. One
  - 2. Two
  - 3. Three 4. Four
- What is the main advantage of a 4-65. bladder-type fuel cell over a self-4-59. sealing fuel cell?
  - 1. Fewer inspections
  - 2. Less total weight

  - 2. Dry air
    3. Thicker wall construction 3. Nitrogen
    4. Slightly smaller than the aircraft cavity 4. Natural gas

- When applying the nylon barrier of a rubber-type bladder fuel cell, you should NOT use which of the following methods of application?
  - 1. Swab
  - 2. Brush 3. Spray

  - 4. Roller
- When jacking aircraft aboard ship, you must have what minimum number of tie-down chains per jack?

  4-61. The milled skins of an integral fuel cell are normally fastened the aircraft by what means? fuel cell are normally fastened to

  - Pins
     Bolts
     Rivets
  - 4. Screws
  - A fuel leak that reappears 30 minutes after it is wiped dry is classified as what category of leakage?

    - Seep
       Slow seep
    - 3. Heavy seep
    - 4. Running leak
  - 4-63. What is the first step you should take to stop a fuel leak?
    - 1. Reinject sealant around the perimeter of the cell
    - 2. Replace the O-rings under all fasteners in the leak area
    - 3. Retorque all fasteners 6 inches on either side of the leak area
    - 4. Replace the Stat-O-Seal washers under all fasteners in the leak area
    - 4-64. To allow the gun piston to return before another cycle can begin, the trigger of a sealant injector gun must be released approximately how often?
      - 1. Every 30 seconds
      - 2. Every 45 seconds

      - 3. Every 15 minutes 4. Every 20 minutes
    - To pressure test the repair made on an integral fuel cell, you should use what gas?
      - 0xygen
      - 2. Dry air